PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International filing date (day/month/year) International application No. Priority date (day/month/year) PCT/JP2004/006348 30.04.2004 08.05.2003 International Patent Classification (IPC) or both national classification and IPC C08F8/00, C08G65/00, C07C69/00 **Applicant** CANON KABUSHIKI KAISHA This opinion contains indications relating to the following items: ☑ Box No. I Basis of the opinion ☑ Box No. II **Priority** □ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☐ Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 2. **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. 3.

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2004/006348

			JC20 Rec'd PCT/PTO 29 JUN 2005					
	Box N	10.1	Basis of the opinion					
1.		regard to the language, this opinion has been established on the basis of the international application in anguage in which it was field, unless otherwise indicated under this item.						
	This opinion has been established on the basis of a translation from the original language into the followant language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).							
2.			to any nucleotide and/or amino acid sequence disclosed in the international application and to the claimed invention, this opinion has been established on the basis of:					
	a. type of material:							
		a se	equence listing					
		tab	le(s) related to the sequence listing					
b. format of material:								
		in w	vritten format					
		in c	omputer readable form					
c. time of filing/furnishing:								
		con	tained in the international application as filed.					
		filed	d together with the international application in computer readable form.					
		furr	nished subsequently to this Authority for the purposes of search.					
3.	ha Co	as be opies	tion, in the case that more than one version or copy of a sequence listing and/or table relating thereto en filed or furnished, the required statements that the information in the subsequent or additional is identical to that in the application as filed or does not go beyond the application as filed, as priate, were furnished.					

4. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2004/006348

	Box No. II	Priority						
١.	☐ The following document has not been furnished:							
	copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).							
		translation of the	earlier appl	ication who	ose priority has been claimed (Rule 43bis.1 and 66.7(b)).			
	Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.							
	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.							
	Additional observations, if necessary:							
					·			
				D=10				
	Box No. V industrial a	Reasoned state applicability; citat	ement und ions and e	er Rule 43 explanatio	Bbis.1(a)(i) with regard to novelty, inventive step or one supporting such statement			
	Statement							
	Novelty (N)		Yes: No:	Claims Claims	1-13			
	Inventive st	ep (IS)	Yes: No:	Claims Claims	1-13			
	Industrial ap	pplicability (IA)	Yes: No:	Claims Claims	1-13			
)	Citations an	nd explanations						

see separate sheet

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/JP2004/006348

Ad V

The present subject-matter relates to an alkenyl ether compound comprising an aromatic carboxylic acid functionality having a fluorine atom, a polymer/block polymer compound comprising repeating units of said polyalkenyl ether, a composition comprising said polymer and an image recording method using said composition.

The prior art documents do not describe a polymer containing both an alkenyl ether moiety and a monomer of an aromatic carboxylic acid having a fluorine atom. The problem posed by the present application is the provision of a polymeric compound which when used in an aqueous dye solution improves the dispersibility of colouring material and minimizes smearing and feathering. The effect of good dispersability of pigments due to the presence of the polymer of present claim 1 has been demonstrated in the working examples.